

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (currently amended): A radio communication system for performing radio communication control having frames with a plurality of transmit and receive time slots, comprising:
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a propagation information calculation device including continuous time slot allocating means for continuously allocating to a terminal unit more than one transmit time slot and more than one receive time slot in a frame to generate a continuous transmit time slot and a continuous receive time slot for the terminal unit, and propagation information calculating means for communicating with a the terminal unit during a period of the continuous time slot to calculate propagation information about radio wave propagation between a radio base station and the terminal unit; and
a transmission timing calculation device including transmission timing calculating means for calculating, during the period of the continuous time slot and based on the propagation information, transmission timing for a signal to be transmitted from the terminal unit to the radio base station, and signal transmitting means for transmitting the signal in accordance with the transmission timing.
2. (currently amended): The radio communication system according to claim 1, wherein, to calculate the propagation information, said propagation information calculating means measures a time from transmission of test data to the terminal unit to reception of the test

~~data returned from the terminal unit, and calculates at least one of a radio wave propagation time or and distance between the radio base station and the terminal unit.~~

3. (original): The radio communication system according to claim 1, wherein said transmission timing calculation device stores information on the calculated transmission timing in a nonvolatile memory.

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4. (original): The radio communication system according to claim 1, wherein said continuous time slot allocating means cancels allocation of the continuous time slot after the transmission timing is calculated.

5. (currently amended): A propagation information calculation device arranged in a radio base station for calculating radio wave propagation information utilizing frames with a plurality of transmit and receive time slots, comprising:

continuous time slot allocating means for continuously allocating to a terminal unit more than one transmit time slot and more than one receive time slot in a frame to generate a continuous transmit time slot and a continuous receive time slot for the terminal unit; and

propagation information calculating means for communicating with a the terminal unit during a period of the continuous time slot to calculate the radio wave propagation information about radio wave propagation between the radio base station and the terminal unit.

6. (currently amended): A transmission timing calculation device arranged in a terminal unit for calculating transmission timing for a signal and utilizing frames with a plurality of transmit and receive time slots, comprising:

transmission timing calculating means for calculating, during a period of a continuous time slot generated by continuously allocating to the terminal unit more than one transmit time slot and more than one receive time slot in a frame slots, transmission timing for a signal to be transmitted from the terminal unit to a radio base station in accordance with propagation information about radio wave propagation between the radio base station and the terminal unit; and

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signal transmitting means for transmitting the signal in accordance with the transmission timing.

7. (currently amended): A radio communication method for performing radio communication control having frames with a plurality of transmit and receive time slots, comprising:

continuously allocating to a terminal unit more than one transmit time slot and more than one receive time slot slots in a frame to generate a continuous transmit time slot and a continuous receive time slot for the terminal unit;

communicating with a the terminal unit during a period of the continuous time slot to calculate propagation information about radio wave propagation between a radio base station and the terminal unit;

calculating, during the period of the continuous time slot and based on the propagation information, transmission timing for a signal to be transmitted from the terminal unit to the radio base station; and

transmitting the signal in accordance with the transmission timing.

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8. (currently amended): The radio communication method according to claim 7, wherein, to calculate the propagation information, a time from transmission of test data to the terminal unit to reception of the test data returned from the terminal unit is measured to calculate at least one of a radio wave propagation time or and distance between the radio base station and the terminal unit.

9. (currently amended): A radio communication system for performing radio communication control, comprising:

a base station location information acquisition device including base station location information acquiring means for acquiring base station location information which is information on a location of a radio base station, and base station location information notifying means for notifying the base station location information; and

a transmission timing calculation device including terminal location information acquiring means for acquiring terminal location information which is information on a location of a terminal unit, propagation information calculating means for calculating, based on the base station location information and the terminal location information, propagation information about uplink and downlink radio wave propagation between the radio base station and the terminal unit, transmission timing calculating means for calculating, based on the uplink and

downlink propagation information, transmission timing for a signal to be transmitted from the terminal unit to the radio base station, and signal transmitting means for transmitting the signal in accordance with the transmission timing.

10. (original): The radio communication system according to claim 9, wherein said base station location information acquiring means uses a satellite-assisted positioning system to acquire the base station location information.

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11. (original): The radio communication system according to claim 9, wherein said terminal location information acquiring means uses a satellite-assisted positioning system to acquire the terminal location information.

12. (original): The radio communication system according to claim 9, wherein said transmission timing calculation device stores information on the calculated transmission timing in a nonvolatile memory.

13. (currently amended): A base station location information calculation device arranged in a radio base station for calculating location information about a location thereof, comprising:

base station location information acquiring means for acquiring base station location information which is the location information of the radio base station; and

base station location information notifying means for notifying the base station location information to a terminal unit; and

receiving a signal from the terminal unit, wherein the received signal timing is adjusted for a roundtrip radio wave propagation based on the notified base station location information and terminal location information.

14. (currently amended): A transmission timing calculation device arranged in a terminal unit for calculating transmission timing for signal, comprising:

terminal location information acquiring means for acquiring terminal location information which is information about a location of the terminal unit;
propagation information calculating means for calculating, based on the terminal location information and base station location information which is information about a location of a radio base station, propagation information about radio wave uplink and downlink propagation between the radio base station and the terminal unit;
~~transmission timing calculating means for calculating, based on the uplink and downlink propagation information, transmission timing for a signal to be transmitted from the terminal unit to the radio base station; and~~
signal transmitting means for transmitting the signal in accordance with the transmission timing.

15. (currently amended): A radio communication method for performing radio communication control, comprising:

acquiring base station location information which is information about a location of a radio base station;
notifying the base station location information;

acquiring terminal location information which is information about a location of a terminal unit;

calculating, based on the base station location information and the terminal location information, uplink and downlink propagation information about radio wave propagation between the radio base station and the terminal unit;

a2 calculating, based on the uplink and downlink propagation information, transmission timing for a signal to be transmitted from the terminal unit to the radio base station; and

transmitting the signal in accordance with the transmission timing.